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Prepared for: DOT, Sam Hall

Project Title: GPS-Based Excavation Encroachment Notification Project

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## **TASK 2: Develop a GPS-Based Excavation Monitor**

GTI purchased three GPS units that will serve as the excavation monitoring antenna for the pilot. It was determined that simple closure switches will be the most versatile and cost effective means of determining if an excavator is digging. Simulated switches were designed.

The current web services reporting tool associated with the GPS antenna will have to be modified to allow a new “digging” field to be displayed on the web page and sent to the portal. GTI has developed specifications for the web services reporting requirements.

## **TASK 3: Develop GPS-Based Excavation Software**

The portal design was completed and development was initiated. Reporting and data requirements were identified for both the one-call center and the GPS monitoring system.

The following activities are planned for the next quarter:

- Complete portal development
- The trigger mechanism for the GPS-Based Excavation Encroachment Monitor will be developed and tested.
- Meet with equipment manufacturers to begin discussions about integrating the GPS-Based Excavation Encroachment system requirements into next generation equipment.